

# Utilities Division Overview

## Senate Utilities Committee

### February 4, 2021

Jeff McClanahan – Director, Utilities Division



# Organization of the Utilities Division

There are four sections within the Utilities Division. They are:

- Accounting & Finance Section – Justin Grady
- Economic Policy and Rates Section – Dr. Bob Glass
- Energy Operations and Pipeline Safety Section – Leo Haynos
- Telecommunications Section – Vacant

# Types of Dockets

- Rate Cases
- Fuel Clause Reviews (PGA,ECA)
- Mergers & Acquisitions
- Accounting Authority Orders
- Certificates
- Complaints
- Contracts
- Compliance
- Eligible Telecommunication Carrier (ETC)
- General Investigations
- Fuel Purchase and Hedging Reviews
- Interconnection Agreements
- Kansas Universal Service Fund (KUSF)

# Types of Dockets -- Continued

- Price Deregulation
- Penalties
- Pre-approval Ratemaking Principles
- Securities
- Show Causes
- Tariffs
- Video Service Authorizations
- Annual Reports

# Role of Utilities' Staff

Regulate Electric, natural gas, telecommunications, and water public utilities as well as liquids pipelines.

- Monitoring and compliance— through various periodic reports (e.g., Compliance Dockets and Annual Reports) and trade press.
- Investigation and evaluation
  - Auditing and evaluation in rate cases, mergers, general investigations, show causes, fuel clause reviews, transmission line siting.
  - Inspections – primarily pipeline safety, Damage Prevention.
  - Dispute Resolution - complaints & telecom arbitrations.
  - Industry Analysis and Oversight – generic investigations; participation in SPP or Federal proceedings(FERC and FCC); NARUC, NRRI etc.

# Utilities Division Workload

- Utilities Division works on approximately 400 dockets per year
- Participate in or attend various meetings, conferences, workshops, etc. (SPP, NARUC, FERC, FCC, PHMSA, NAPSR)
- Provide Commissioners with informal information and advice as well as written memos, report and recommendations, pre-prepared and live testimony
- Assist legal and advisory in drafting pleadings, orders, etc.
- Technical support for informal complaints to PACP
- Ensure compliance with natural gas pipeline, One Call, and electric safety requirements
- Provide assistance to governor's office, legislature, and other entities as requested

# Current Issues

- Concerns regarding electric rates in Kansas
  - Justin Grady will discuss in his presentation.
- Continuing need for prolonged construction cycle
  - Continuing transition to renewable generation (Wind, Solar) also creates need for resources to address variability such as Natural Gas and Energy Storage;
  - Transmission – both new to support additional renewable generation and replacement of aging facilities;
  - Distribution System – both to support higher penetrations of rooftop solar, shift to resilient and hardened grid, and replacement of aging facilities; and
  - Integration of new energy storage for transmission services.
- Places upward pressure on rates due to construction cycle and possible early retirement of existing coal-fired generation. Securitization legislation will help lower costs of early retirement.
- Evergy's Integrated Resource Plan
- Evergy's Sustainability Plan
- Energy Efficiency
- Aging natural gas infrastructure
- Cybersecurity and physical security
- KUSF Cap has been met

# Current Issues

- Combination of Utilities Division retirements, private sector retirements, and lagging salaries are leading to retention concerns.
  - It takes approximately 24-36 months to train new employees.
  - Difficult to recruit.
  - New hires can be difficult to retain.

# Update on Kansas Electric Rates, Overview/Background Information Relative to SB 80 and SB 81

Senate Utilities Committee—2/4/21

Justin Grady

*Chief of Revenue Requirements, Cost of Service, and Finance*

Utilities Division.

[j.grady@kcc.ks.gov](mailto:j.grady@kcc.ks.gov)



## Focus of My Presentation:

1. Updated Kansas Electricity Rates Data (2019)
2. Regional Rate Comparisons (as called for in SB-81)
3. Background Information Relative to SB-80

# 2019 Update on Kansas Electric Rates

- In 2019, the most updated data we have from EIA, Average Electricity Rates in Kansas declined by 4.29%. This was the largest decline in the country.
- This compares to our regional neighbors as follows:

EIA.GOV			Change Year over Year
Average retail price of electricity	2018	2019	
All sectors : United States	10.53	10.54	0.09%
Kansas	10.72	10.26	-4.29%
Oklahoma	8.09	7.86	-2.84%
Missouri	9.93	9.68	-2.52%
North Dakota	8.91	8.85	-0.67%
South Dakota	9.97	9.96	-0.10%
Nebraska	9.02	9.08	0.67%
Texas	8.48	8.6	1.42%
Colorado	10.02	10.17	1.50%
Iowa	8.92	9.08	1.79%
Arkansas	7.78	8.22	5.66%

# Update on Kansas Industrial Electricity Rates

The Following is Industrial Rate Data compiled by EIA for 2019.

State	Number of Customers	Average Monthly Consumption (kWh)	Average Price (cents/kWh)
<b>West North Central</b>	<b>126,985</b>	<b>61,392</b>	<b>7.27</b>
Iowa	8,565	235,831	6.60
Kansas	24,230	39,939	7.35
Minnesota	8,998	201,415	7.53
Missouri	10,096	107,383	7.11
Nebraska	62,204	14,225	7.65
North Dakota	8,803	88,973	7.94
South Dakota	4,089	59,588	7.81
<b>East North Central</b>	<b>55,588</b>	<b>288,308</b>	<b>6.91</b>
Illinois	5,737	628,238	6.52
Indiana	18,805	200,818	7.36
Michigan	5,726	434,952	7.07
Ohio	19,798	211,508	6.55
Wisconsin	5,522	356,375	7.31
<b>West South Central</b>	<b>306,569</b>	<b>56,495</b>	<b>5.43</b>
Arkansas	34,864	41,618	6.13
Louisiana	19,373	162,797	5.23
Oklahoma	19,905	87,516	5.07
Texas	232,427	47,210	5.45

# Update on Kansas Residential Electricity Rates

Average Residential Electric Rates --EIA			
	2018	2019	Year Over Year %
Arkansas	9.81	9.8	-0.10%
Louisiana	9.59	9.8	2.19%
Oklahoma	10.3	10.21	-0.87%
North Dakota	10.25	10.3	0.49%
Nebraska	10.7	10.77	0.65%
Missouri	11.34	11.14	-1.76%
South Dakota	11.59	11.55	-0.35%
Texas	11.2	11.76	5.00%
Colorado	12.15	12.18	0.25%
Ohio	12.56	12.38	-1.43%
Iowa	12.24	12.46	1.80%
Indiana	12.26	12.58	2.61%
Kansas	13.35	12.71	-4.79%
Illinois	12.77	13.03	2.04%
Minnesota	13.14	13.04	-0.76%
Wisconsin	14.02	14.18	1.14%
Michigan	15.45	15.74	1.88%
United States	12.87	13.01	1.09%

# Kansas Residential Monthly Bill Data

## 2019 Average Monthly Bill- Residential

(Data from forms EIA-861- schedules 4A-D, EIA-861S and EIA-861U)

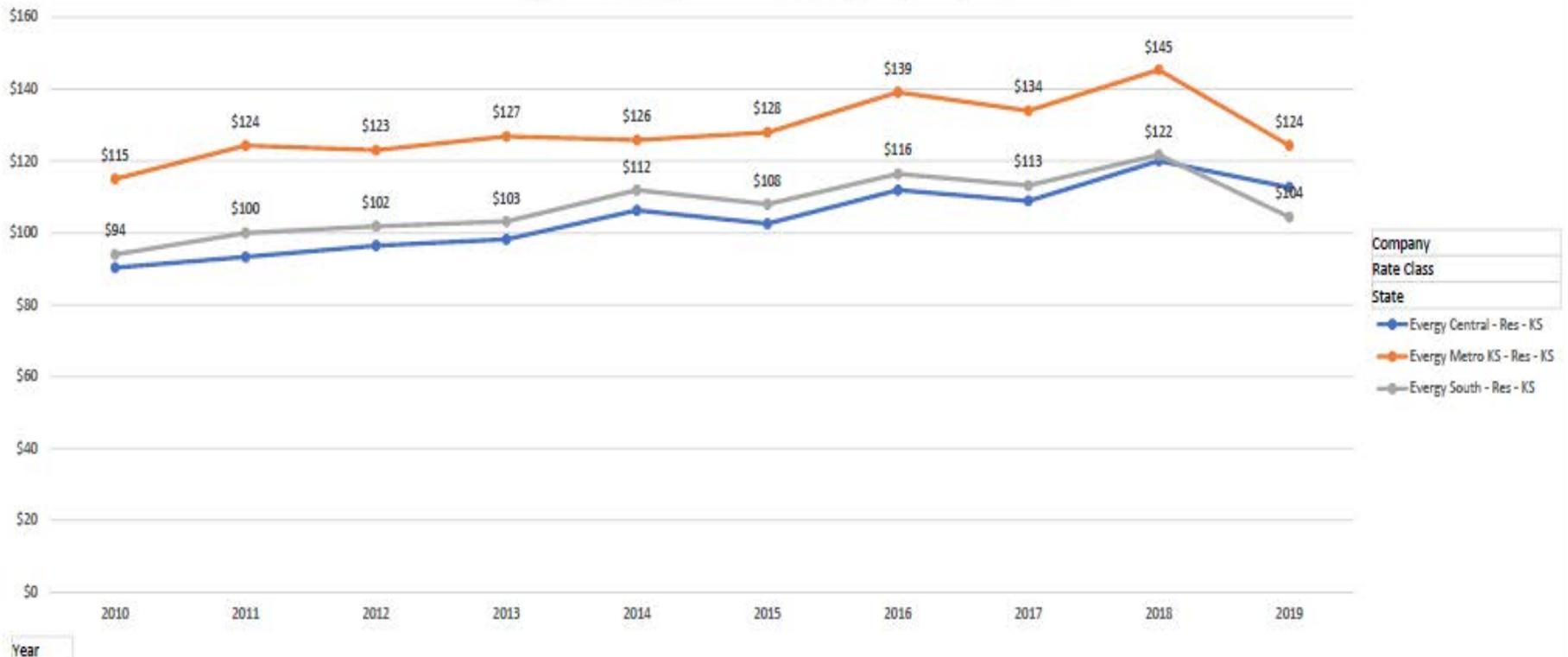
State	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)	Monthly Bill Rank
Colorado	682	12.18	83.07	1
Illinois	709	13.03	92.37	2
Wisconsin	674	14.18	95.52	3
Minnesota	759	13.04	99.02	4
Michigan	637	15.74	100.23	5
Iowa	867	12.46	108.04	6
Nebraska	1,004	10.77	108.08	7
Ohio	874	12.38	108.15	8
Arkansas	1,118	9.80	109.46	9
<b>Kansas</b>	<b>891</b>	<b>12.71</b>	<b>113.26</b>	<b>10</b>
Oklahoma	1,116	10.21	113.93	11
North Dakota	1,109	10.30	114.27	12
Missouri	1,058	11.14	117.82	13
Louisiana	1,232	9.80	120.70	14
Indiana	960	12.58	120.74	15
Texas	1,140	11.76	134.07	16
<b>U.S. Total</b>	<b>887</b>	<b>13.01</b>	<b>115.49</b>	

# Residential Monthly Bill Data—Everyg<sup>7</sup>

- Everyg's Monthly Bill data (from EIA) for residential customers shows that customer bills have grown slower than inflation over the last five years, and consistent with inflation over the last ten years.

Sum of Average Monthly Bill (Dollars)

Everyg Kansas Average Residential Monthly Bill (Dollars)--Source: EIA



# Residential Monthly Bill Data— Evergy

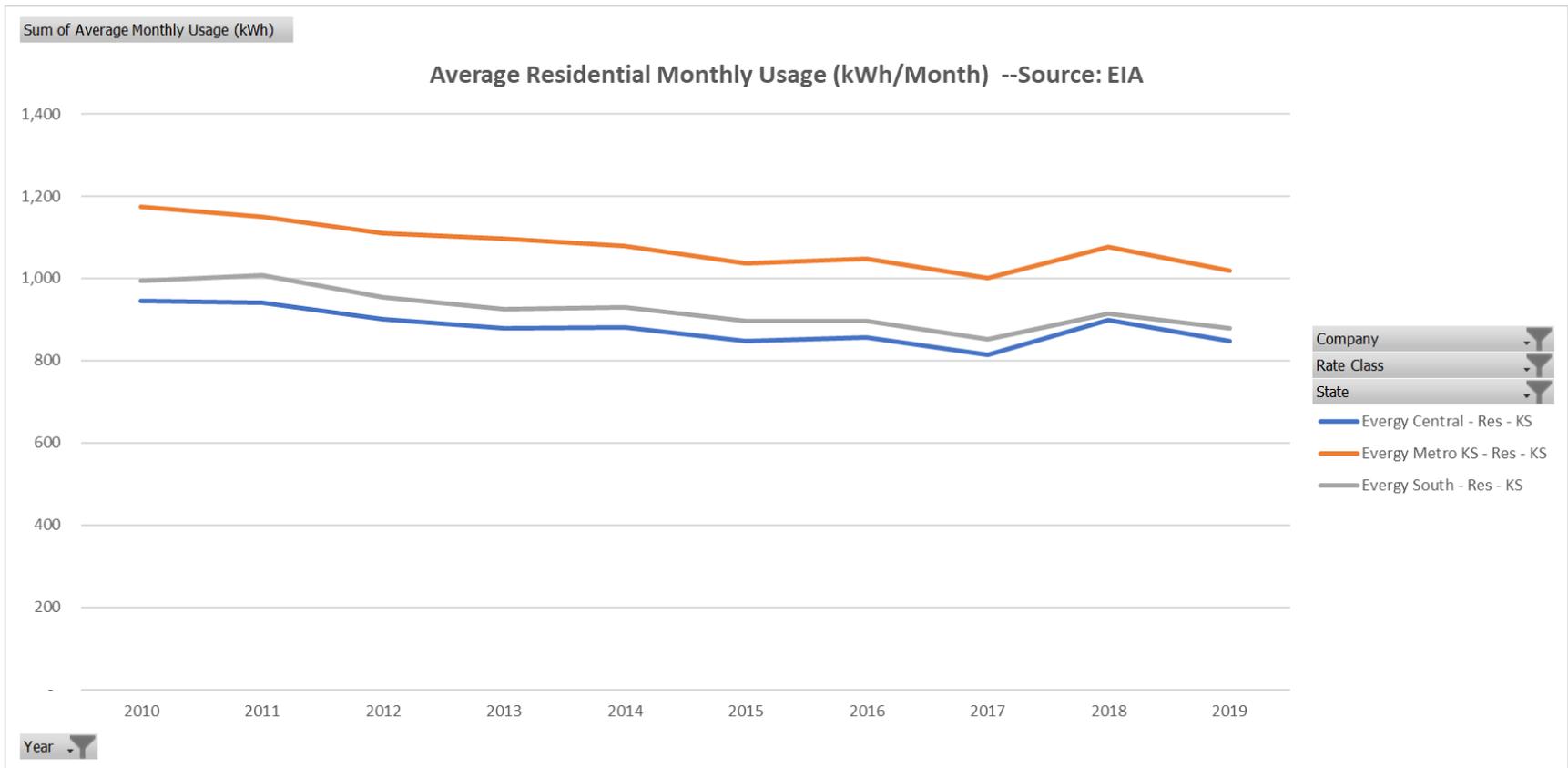
- Evergy’s Monthly Bill data (from EIA) for residential customers shows that customer bills have grown consistent with inflation (CPI) over the last ten years.

**Residential Customer Average Monthly Bill --Source: EIA**

Year	Evergy			
	Evergy Kansas Metro	Evergy Kansas North	Evergy Kansas South	Evergy Kansas Central (Westar)
2010	\$ 115.03	\$ 90.34	\$ 93.99	\$ 92.05
2011	\$ 124.30	\$ 93.30	\$ 99.99	\$ 96.45
2012	\$ 123.04	\$ 96.46	\$ 101.85	\$ 99.00
2013	\$ 126.84	\$ 98.20	\$ 103.20	\$ 100.55
2014	\$ 125.84	\$ 106.29	\$ 111.92	\$ 108.94
2015	\$ 127.95	\$ 102.57	\$ 107.99	\$ 105.12
2016	\$ 139.16	\$ 111.90	\$ 116.41	\$ 114.02
2017	\$ 134.01	\$ 108.89	\$ 113.19	\$ 110.91
2018	\$ 145.39	\$ 120.07	\$ 121.70	\$ 120.84
2019	\$ 124.32	\$ 112.66	\$ 104.41	\$ 108.78
CAGR	0.87%	2.48%	1.18%	1.87%
10-YR Growth	8.08%	24.72%	11.09%	18.18%

# Residential Usage Data—Everygy

- Everygy’s average usage data shows that average residential usage has declined by 11% for Everygy Kansas Central and 13.25% for Everygy Metro.



# Evergy Rate Comparison— Regional Rates

- There is sometimes a misconception that Evergy has the highest rates in the region. That isn't the case.
- When the KCC performed our rate study, we found at the time, based on 2017 rate data that Evergy Kansas Central's rates were the 9<sup>th</sup> highest out of 23 peer utilities in nine states. Evergy Kansas Metro had the 2<sup>nd</sup> highest rates at the time out of those 23 utilities.
  - Evergy's rates have declined since that time, faster than the regional average.
- In the next several slides I will provide an updated analysis based on 2019 data. --Specifically related to Evergy's electric rates compared to surrounding IOUs.

# Evergy's Rates Compared to Surrounding State IOUs.

- SNL Global Market Intelligence produces a report every year that compares the rates of every investor-owned utility (IOU) in the country that is covered by SNL.
- This information is provided by Industrial, Commercial, Residential, and All Customers, similar to the categories of EIA data reviewed above.
- Using those reports, we compared Evergy's rates to every IOU in the states of Colorado, Missouri, Oklahoma, Texas, Arkansas, Iowa, North Dakota, South Dakota, Indiana, Minnesota, Wisconsin, Michigan, Illinois and Ohio.

# Evergy Kansas Central Rates Compared to Surrounding States

- The result:
  - Evergy Kansas Central's total retail rates were 28<sup>th</sup> highest out of 60 utilities, or 4.56% higher than the average.
  - Evergy Kansas Central's Residential rates were 22<sup>nd</sup> highest out of 62 utilities, or 4.22% higher than the average.
  - Evergy Kansas Central's Industrial rates were 23<sup>rd</sup> highest out of 60, or 8.33% higher than the average.
  
- More work remains to be done, but Evergy's rates are far from the highest in the region.

# Evergy Kansas Metro Rates Compared to Surrounding States

- The result was:
  - Evergy Kansas Metro's total retail rates were 19<sup>th</sup> highest out of 60 utilities, or 12% higher than the average.
  - Evergy Kansas Metro's Residential rates were 25<sup>th</sup> highest out of 62 utilities, or 1% higher than the average.
  - Evergy Kansas Metro's Industrial rates were 4<sup>th</sup> highest out of 60, or 76% higher than the average.
- More work needs to be done, but Evergy's rates are far from the highest in the region.

# Background Information Relative to SB-80

- SB-80 makes changes to the Transmission Delivery Charge (TDC) statute in Kansas, 66-1237.
- Basically this Bill would change the process that electric utilities currently use to recover their transmission costs (both related to their own transmission facilities and the costs associated with other utilities' transmission facilities).
- I will not discuss the merits or demerits of this proposed Bill, but I will provide some background information that I hope the committee finds helpful if it holds a hearing on this Bill.

# Background Information Relative to SB-80 –Current Process

- Currently investor owned utilities in Kansas recover their transmission costs annually through a TDC rider.
  - Pursuant to 66-1237, that rider goes into effect after 30 business days.
- These charges are to be conclusively presumed prudent, which essentially means that the review process for a TDC is a math exercise.
- On occasion there are more contentious proceedings involving the method of allocating the retail portion of TDC costs between retail customer classes.

# Background Information Relative to SB-80 – Proposed Process

- SB-80 would prohibit a utility from changing the TDC outside of a general rate case, unless the Federal Energy Regulatory Commission (FERC) issued an order changing a component of the formula rate.

# Background Information Relative to SB-80 –FERC Ratemaking for Transmission Costs

- FERC has jurisdictional authority over most interstate transmission matters in the United States.
- FERC uses a Transmission Formula Rate (TFR) process to set transmission rates.
- TFRs are based on projected costs, trued up to actuals with interest.
- The formula is the “rate”—FERC doesn’t issue an Order every year.
- TFRs rely heavily on stakeholder review process (customers, regulators, other interested parties).

# Background Information Relative to SB-80 –SPP Process

- Once a TFR is approved, its gets updated every year and becomes part of SPP's Open Access Transmission Tariff (OATT) Annual Transmission Revenue Requirement (ATRR).
- SPP bills out the ATRR to any customer using the transmission system, including utilities on behalf of their retail customers.
- Wholesale customers are billed directly by SPP.
- SPP then submits revenue to the utility owning the transmission asset.

# Background Information Relative to SB-80 –SPP Process

- The bill that a utility receives from SPP will contain both costs and revenues associated with its owned transmission facilities, offsetting one another.
- The TDC, based on a retail allocation of charges established through the TFR, is how utilities in Kansas recover the retail portion of their Transmission costs.
- The TDC also allows utilities to recover costs associated with the rest of the SPP transmission system, and other utilities' owned transmission assets.

# Background Information Relative to SB-80 –Actual TDC Filing

## Amount of Westar Zonal Revenue Requirements

### SPP Tariff

### 2020 TDC Calculation

Line#	SPP Rates Effective 1/1/2020	Annual Rev Req	SPP Tariff Schedule
1	Westar Zonal ATRR	\$ 167,754,586	Schedule 9 (Notes 1, 6, 12)
2	Westar BPF Zonal ATRR: NTC prior to June 19, 2010	\$ 23,079,842	Schedule 11 (Notes 2, 7, 12)
3	Westar BPF Zonal ATRR: NTC on or after June 19, 2010	\$ 35,866,922	Schedule 11 (Notes 2, 8, 12)
4	Westar ATRR Reallocated to Balanced Portfolio Region-wide ATRR	\$ (5,061,469)	Schedule 11 (Note 9, 12)
5	Base Plan Zonal ATRR to pay Upgrade Sponsors (Z2)	\$ 910,583	Schedule 11 (Note 14, 12)
6	Region-wide Allocation to Westar Zone	\$ 62,859,238	Schedule 11 (Note 4, 12,13)
7	<b>Total ATRR for Westar Zone</b>	\$ 285,409,702	
8	Retail Load Ratio Share (2019-Note 5)	83.03209548%	(Tab: Load Ratio Share)(Note 5)
9	Westar Retail SPP Network Service Costs	\$ 236,981,656	(line 7 * line 8)
<b>Actual 2019 SPP Charges for Retail Load, excluding Sch 9 &amp; 11</b>		<b>Total Dollars</b>	<b>Service Type</b>
10	SPP Administrative Fee	\$ 12,039,314	Schedule 1A (Note 3)
11	Facility Charges on Westar System (WDSC)	\$ 19,494	Schedule 10 (Note 3)
12	FERC Assessment Fees	\$ 1,897,203	Schedule 12 (Note 3)
13	Westar Retail Load on Foreign Wires (all costs)	\$ 35,616	Note 10
14	SPP Direct Assigned Transmission Customer Upgrades Costs	\$ 708,012	Note 11
15	<b>Total</b>	\$ 14,699,638	Sum (lines 10 - 14)
16	<b>Total Annual Transmission Cost</b>	\$ 251,681,294	(line 9 + line 15)
<b>Comparison Current Year to Proposed Year</b>			
17	Current Level of TDC	\$ 248,202,497	(Prev. Yrs. Retail Trans. Svcs.)
18	Change in TDC	\$ 3,478,797	(line 16 - line 17)

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# Questions??



2019 Rank	Average retail price of electricity	2018	2019	Change Year over Year
	All sectors : United States	10.53	10.54	0.09%
32	Kansas	10.72	10.26	-4.29%
14	New Mexico	9.35	8.99	-3.85%
22	Ohio	9.94	9.58	-3.62%
3	Idaho	8.17	7.89	-3.43%
43	New York	14.83	14.34	-3.30%
36	Arizona	10.85	10.52	-3.04%
25	Pennsylvania	10.1	9.81	-2.87%
38	Maryland	11.57	11.24	-2.85%
2	Oklahoma	8.09	7.86	-2.84%
8	West Virginia	8.72	8.49	-2.64%
23	Missouri	9.93	9.68	-2.52%
51	Hawaii	29.18	28.72	-1.58%
13	North Dakota	8.91	8.85	-0.67%
47	Massachusetts	18.5	18.4	-0.54%
12	Oregon	8.85	8.81	-0.45%
21	Illinois	9.6	9.56	-0.42%
33	Minnesota	10.37	10.33	-0.39%
35	Delaware	10.55	10.52	-0.28%
29	South Dakota	9.97	9.96	-0.10%
1	Louisiana	7.71	7.71	0.00%
5	Wyoming	8.09	8.1	0.12%
7	Utah	8.21	8.24	0.37%
20	Virginia	9.48	9.52	0.42%
18	Mississippi	9.24	9.28	0.43%
4	Washington	8	8.04	0.50%
17	Nebraska	9.02	9.08	0.67%
37	Wisconsin	10.58	10.66	0.76%
46	New Hampshire	17.01	17.15	0.82%
10	Kentucky	8.52	8.61	1.06%
24	Tennessee	9.58	9.69	1.15%
34	Florida	10.32	10.44	1.16%
11	Nevada	8.67	8.78	1.27%
49	Connecticut	18.41	18.66	1.36%
39	Michigan	11.4	11.56	1.40%
9	Texas	8.48	8.6	1.42%
41	New Jersey	13.23	13.42	1.44%
31	Colorado	10.02	10.17	1.50%
44	Vermont	15.13	15.36	1.52%
28	Indiana	9.75	9.91	1.64%
16	Iowa	8.92	9.08	1.79%
45	California	16.58	16.89	1.87%
40	District Of Columbia	12.03	12.27	2.00%
15	Montana	8.84	9.02	2.04%
26	Alabama	9.63	9.83	2.08%
48	Rhode Island	18.1	18.49	2.15%
19	North Carolina	9.25	9.45	2.16%
27	Georgia	9.62	9.86	2.49%
30	South Carolina	9.67	10.02	3.62%
50	Alaska	19.36	20.22	4.44%
42	Maine	13.44	14.04	4.46%
6	Arkansas	7.78	8.22	5.66%

## Average Residential Electric Rates --EIA

Rank	2018	2019	Year Over Year %
1 Washington	9.75	9.71	-0.41%
2 Arkansas	9.81	9.8	-0.10%
3 Louisiana	9.59	9.8	2.19%
4 Idaho	10.15	9.89	-2.56%
5 Oklahoma	10.3	10.21	-0.87%
6 North Dakota	10.25	10.3	0.49%
7 Utah	10.41	10.4	-0.10%
8 Nebraska	10.7	10.77	0.65%
9 Kentucky	10.6	10.8	1.89%
10 Tennessee	10.71	10.87	1.49%
11 Oregon	10.98	11.01	0.27%
12 Montana	10.96	11.13	1.55%
13 Missouri	11.34	11.14	-1.76%
14 Wyoming	11.29	11.18	-0.97%
15 West Virginia	11.18	11.25	0.63%
16 Mississippi	11.12	11.27	1.35%
17 North Carolina	11.09	11.42	2.98%
18 South Dakota	11.59	11.55	-0.35%
19 Florida	11.54	11.7	1.39%
20 Georgia	11.47	11.76	2.53%
21 Texas	11.2	11.76	5.00%
22 Nevada	11.85	12	1.27%
23 Virginia	11.73	12.07	2.90%
24 Colorado	12.15	12.18	0.25%
25 Ohio	12.56	12.38	-1.43%
26 Arizona	12.77	12.43	-2.66%
27 Iowa	12.24	12.46	1.80%
28 New Mexico	12.68	12.51	-1.34%
29 Alabama	12.18	12.53	2.87%
30 Delaware	12.53	12.55	0.16%
31 Indiana	12.26	12.58	2.61%
32 Kansas	13.35	12.71	-4.79%
33 South Carolina	12.44	12.99	4.42%
34 Illinois	12.77	13.03	2.04%
35 Minnesota	13.14	13.04	-0.76%
36 Maryland	13.3	13.12	-1.35%
37 Pennsylvania	13.89	13.8	-0.65%
38 Wisconsin	14.02	14.18	1.14%
39 Michigan	15.45	15.74	1.88%
40 New Jersey	15.41	15.85	2.86%
41 Vermont	18.02	17.71	-1.72%
42 Maine	16.84	17.89	6.24%
43 New York	18.52	17.94	-3.13%
44 California	18.84	19.15	1.65%
45 New Hampshire	19.69	20.05	1.83%
46 Rhode Island	20.55	21.73	5.74%
47 Connecticut	21.2	21.87	3.16%
48 Massachusetts	21.61	21.92	1.43%
49 Alaska	21.94	22.92	4.47%
50 Hawaii	32.47	32.06	-1.26%
35 United States	12.87	13.01	1.09%

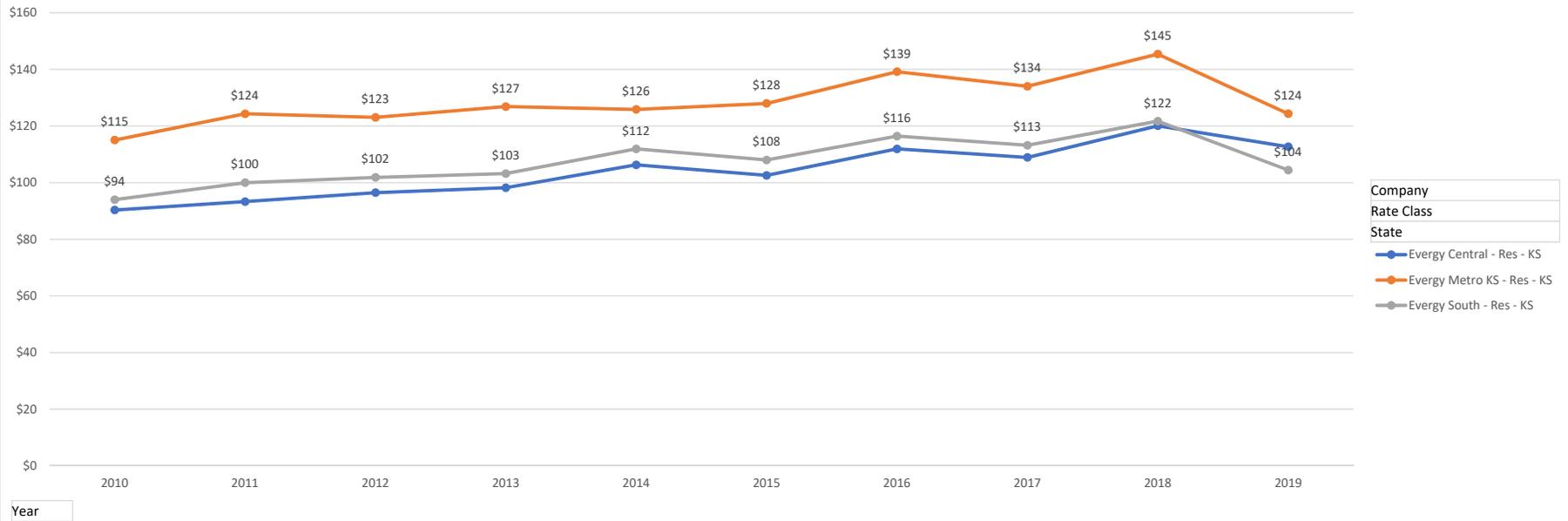
## 2019 Average Monthly Bill- Residential

(Data from forms EIA-861- schedules 4A-D, EIA-861S and EIA-861U)

State	Number of Customers	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)	Rank
Utah	1,116,145	727	10.40	75.63	1
New Mexico	895,086	640	12.51	80.04	2
Colorado	2,370,164	682	12.18	83.07	3
Illinois	5,314,522	709	13.03	92.37	4
Idaho	763,841	949	9.89	93.83	5
Washington	3,126,192	973	9.71	94.49	6
Montana	516,052	857	11.13	95.43	7
Wisconsin	2,720,287	674	14.18	95.52	8
Wyoming	274,881	864	11.18	96.53	9
Vermont	316,180	549	17.71	97.18	10
District of Columbia	282,277	752	12.98	97.62	11
Minnesota	2,446,111	759	13.04	99.02	12
Michigan	4,384,305	637	15.74	100.23	13
Oregon	1,763,783	911	11.01	100.35	14
Maine	710,869	562	17.89	100.53	15
California	13,707,126	532	19.15	101.92	16
New York	7,235,400	577	17.94	103.60	17
New Jersey	3,596,834	663	15.85	105.07	18
Nevada	1,204,996	890	12.00	106.83	19
Iowa	1,392,979	867	12.46	108.04	20
Nebraska	855,619	1,004	10.77	108.08	21
Ohio	4,980,931	874	12.38	108.15	22
Arkansas	1,396,870	1,118	9.80	109.46	23
Kansas	1,274,955	891	12.71	113.26	24
Oklahoma	1,777,156	1,116	10.21	113.93	25
North Dakota	385,038	1,109	10.30	114.27	26
Pennsylvania	5,418,870	837	13.80	115.47	27
Missouri	2,811,863	1,058	11.14	117.82	28
Delaware	439,167	950	12.55	119.16	29
New Hampshire	627,257	599	20.05	120.04	30
Kentucky	1,991,137	1,112	10.80	120.08	31
South Dakota	403,717	1,044	11.55	120.60	32
Louisiana	2,095,466	1,232	9.80	120.70	33
Indiana	2,887,031	960	12.58	120.74	34
Rhode Island	444,216	560	21.73	121.62	35
West Virginia	857,666	1,084	11.25	121.90	36
North Carolina	4,620,856	1,079	11.42	123.25	37
Massachusetts	2,802,099	574	21.92	125.89	38
Arizona	2,853,183	1,014	12.43	126.09	39
Alaska	289,290	555	22.92	127.29	40
Maryland	2,352,535	975	13.12	127.92	41
Florida	9,565,846	1,108	11.70	129.65	42
Georgia	4,411,521	1,121	11.76	131.84	43
Tennessee	2,914,916	1,217	10.87	132.33	44
Texas	11,366,639	1,140	11.76	134.07	45
Virginia	3,464,677	1,122	12.07	135.46	46
Mississippi	1,293,419	1,206	11.27	135.87	47
South Carolina	2,330,903	1,114	12.99	144.73	48
Alabama	2,249,425	1,201	12.53	150.45	49
Connecticut	1,510,966	689	21.87	150.71	50
Hawaii	438,352	525	32.06	168.21	51
<b>U.S. Total</b>	<b>135,249,616</b>	<b>887</b>	<b>13.01</b>	<b>115.49</b>	

Sum of Average Monthly Bill (Dollars)

Energy Kansas Average Residential Monthly Bill (Dollars)--Source: EIA



Residential Customer Average Monthly Bill --Source: EIA

Year	Evergy Kansas		Evergy Kansas	
	Metro	North	Evergy Kansas South	Central (Westar)
2010	\$ 115.03	\$ 90.34	\$ 93.99	\$ 92.05
2011	\$ 124.30	\$ 93.30	\$ 99.99	\$ 96.45
2012	\$ 123.04	\$ 96.46	\$ 101.85	\$ 99.00
2013	\$ 126.84	\$ 98.20	\$ 103.20	\$ 100.55
2014	\$ 125.84	\$ 106.29	\$ 111.92	\$ 108.94
2015	\$ 127.95	\$ 102.57	\$ 107.99	\$ 105.12
2016	\$ 139.16	\$ 111.90	\$ 116.41	\$ 114.02
2017	\$ 134.01	\$ 108.89	\$ 113.19	\$ 110.91
2018	\$ 145.39	\$ 120.07	\$ 121.70	\$ 120.84
2019	\$ 124.32	\$ 112.66	\$ 104.41	\$ 108.78
CAGR	0.87%	2.48%	1.18%	1.87%
10-YR Growth	8.08%	24.72%	11.09%	18.18%

# Ranking of 2019 average bundled price to ultimate customers by operating company (cents/kWh)

S&P Global Market Intelligence		Price--
Rank	Company	Cents/kWh
1	Upper Peninsula Power	MI 12.93
2	Consumers Energy	MI 12.90
3	Madison Gas and Electric	WI 12.48
4	Black Hills Colorado Electric	CO 12.25
5	Toledo Edison	OH 12.21
6	Indiana Michigan Power	MI 12.08
7	Commonwealth Edison	IL 12.05
8	Ohio Power	OH 11.95
9	Wisconsin Electric Power	WI 11.90
10	Black Hills Power	SD 11.84
11	Ohio Edison	OH 11.82
12	DTE Electric	MI 11.74
13	Interstate Power and Light	IA 11.54
14	Empire District Electric	MO 11.46
15	Cleveland Electric Illuminating	OH 11.40
16	Southern Indiana Gas and Electric	IN 11.38
17	Empire District Electric	KS 11.29
18	Evergy Kansas North	KS 10.91
19	Evergy Metro (KCPL)	KS 10.83
20	Evergy Metro	MO 10.81
21	Duke Energy Ohio	OH 10.72
22	Northern States Power Company - WI	MI 10.47
23	Wisconsin Power and Light	WI 10.36
24	Indianapolis Power & Light	IN 10.28
25	Northern States Power	WI 10.23
26	Northern Indiana Public Service	IN 10.14
27	Northern States Power	SD 10.13
	<b>Evergy Kansas Central Average</b>	<b>KS 10.11</b>
28	Dayton Power and Light	OH 10.10
29	Indiana Michigan Power	IN 9.97
30	Southwestern Electric Power	LA 9.61
31	Duke Energy Indiana	IN 9.60
32	NorthWestern Energy Division	SD 9.43
33	Evergy Missouri West	MO 9.38
34	Public Service of Colorado	CO 9.37
35	El Paso Electric	TX 9.34
36	Evergy Kansas South	KS 9.31
37	Entergy New Orleans	LA 9.22
38	Empire District Electric Company	OK 9.05
39	Northern States Power	ND 9.02
40	Wisconsin Public Service	WI 8.94
41	Empire District Electric Company	AR 8.91
42	Union Electric	MO 8.89
43	Ameren Illinois	IL 8.75
44	Entergy Arkansas	AR 8.53
45	Otter Tail Power	ND 8.40
46	Otter Tail Power Company	SD 8.32
47	Southwestern Electric Power	TX 8.11
48	Otter Tail Power	MN 7.99
49	MidAmerican Energy	IL 7.60
50	Minnesota Power	MN 7.56
51	Public Service of Oklahoma	OK 7.47
52	Superior Water, Light and Power Company	WI 7.40
53	MidAmerican Energy	IA 7.30
54	Oklahoma Gas and Electric	OK 7.16
55	Southwestern Electric Power	AR 7.08
56	Entergy Texas	TX 6.87
57	Oklahoma Gas and Electric	AR 6.65
58	Entergy Louisiana, LLC	LA 6.63
59	MidAmerican Energy Company	SD 6.17
60	Southwestern Public Service	TX 5.83

Average of all Midwest Investor-Owned Utilities Avg. 9.67  
 (States of ND, SD, MN, MI, WI, IA, IL, IN, CO, MO, OH, AR, TX, LA)

Evergy Kansas Central vs. Midwest **4.56% Higher**

Data compiled June 16, 2020. Source: S&P Global Market Intelligence

# Ranking of 2019 average bundled price to residential customers

S&P Global Market Intelligence (cents/kWh)

Rank	Company	State	Price Cents/kWh	Annual Bill \$
1	Upper Peninsula Power	MI	21.90	1,157
2	Madison Gas and Electric	WI	17.03	1,039
3	Interstate Power and Light	IA	16.70	1,489
4	Black Hills Colorado Electric	CO	16.38	1,182
5	DTE Electric	MI	16.11	1,211
6	Consumers Energy	MI	15.85	1,228
7	Wisconsin Electric Power	WI	15.45	1,185
8	Southern Indiana Gas and Electric	IN	15.34	1,684
9	Northern Indiana Public Service	IN	14.29	1,165
10	Indiana Michigan Power	IN	13.70	1,424
11	Wisconsin Power and Light	WI	13.66	1,185
12	Northern States Power	MN	13.62	1,005
13	Indiana Michigan Power	MI	13.52	1,425
14	Empire District Electric	MO	13.45	1,751
15	Northern States Power	WI	13.37	1,178
16	Evergy Metro	MO	13.31	1,340
17	Commonwealth Edison	IL	13.30	930
18	<b>Evergy Kansas North</b>	<b>KS</b>	<b>13.29</b>	<b>1,351</b>
19	Black Hills Power	SD	13.15	1,233
20	Wisconsin Public Service	WI	12.93	943
21	Toledo Edison	OH	12.68	1,156
	<b>Evergy Kansas Central Average</b>	<b>KS</b>	<b>12.59</b>	<b>1,302</b>
22	Cleveland Electric Illuminating	OH	12.45	900
23	Superior Water, Light and Power Company	WI	12.39	848
24	Northern States Power Company - WI	MI	12.29	936
25	<b>Evergy Metro</b>	<b>KS</b>	<b>12.21</b>	<b>1,492</b>
26	Ohio Power	OH	12.19	1,345
27	Empire District Electric	KS	12.10	1,614
28	Ohio Edison	OH	12.07	1,196
29	Cleco Power LLC	LA	12.06	1,750
30	Northern States Power	SD	12.02	1,114
31	El Paso Electric	TX	11.97	931
32	<b>Evergy Kansas South</b>	<b>KS</b>	<b>11.88</b>	<b>1,254</b>
33	Duke Energy Indiana	IN	11.73	1,478
34	Empire District Electric Company	AR	11.66	1,286
35	Indianapolis Power & Light	IN	11.25	1,312
36	Public Service of Colorado	CO	11.09	818
37	Minnesota Power	MN	11.08	940
38	Duke Energy Ohio	OH	11.05	1,285
39	Evergy Missouri West	MO	10.90	1,361
40	Southwestern Electric Power	LA	10.80	1,559
41	Dayton Power and Light	OH	10.74	1,200
42	Otter Tail Power	MN	10.72	1,172
43	NorthWestern Energy Division	SD	10.61	1,234
44	MDU Resources Group	ND	10.59	1,055
45	Otter Tail Power Company	SD	10.44	1,451
46	Empire District Electric Company	OK	10.39	1,421
47	Union Electric	MO	10.38	1,316
48	MidAmerican Energy	IA	10.28	1,014
49	Southwestern Public Service	TX	10.23	1,190
50	Southwestern Electric Power	TX	10.20	1,474
51	Entergy New Orleans	LA	10.15	1,300
52	Public Service of Oklahoma	OK	10.14	1,327
53	Northern States Power	ND	10.10	972
54	Entergy Texas	TX	10.05	1,510
55	MidAmerican Energy	IL	9.90	859
56	Entergy Arkansas	AR	9.85	1,326
57	Otter Tail Power	ND	9.53	1,298
58	Ameren Illinois	IL	9.42	1,055
59	Oklahoma Gas and Electric	OK	9.24	1,233
60	Southwestern Electric Power	AR	8.63	988
61	Oklahoma Gas and Electric	AR	8.30	1,090
62	MidAmerican Energy Company	SD	8.00	1,004

Average of all Midwest Investor-Owned Utilities (States of ND, SD, MN, MI, WI, IA, IL, IN, CO, MO, OH, AR, TX, LA)

Evergy Kansas Central Vs. Midwest

4.22%	6.58%
Higher	Higher

Data compiled June 16, 2020. Source: S&P Global Market Intelligence

## 2019 Average Monthly Bill- Industrial

(Data from forms EIA-861- schedules 4A-D, EIA-861S and EIA-861U)

State	Number of Customers	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)
<b>New England</b>	<b>23,310</b>	<b>58,038</b>	<b>13.07</b>	<b>7,586.07</b>
Connecticut	4,204	60,890	13.44	8,180.77
Maine	2,893	80,364	9.22	7,411.02
Massachusetts	11,020	47,956	14.76	7,076.57
New Hampshire	3,193	50,213	13.09	6,572.81
Rhode Island	1,758	32,964	15.59	5,138.99
Vermont	242	486,107	11.05	53,694.73
<b>Middle Atlantic</b>	<b>33,176</b>	<b>188,292</b>	<b>6.57</b>	<b>12,371.96</b>
New Jersey	11,781	49,444	10.16	5,022.98
New York	7,607	192,240	5.61	10,790.87
Pennsylvania	13,788	304,750	6.41	19,523.52
<b>East North Central</b>	<b>55,588</b>	<b>288,308</b>	<b>6.91</b>	<b>19,923.10</b>
Illinois	5,737	628,238	6.52	40,987.88
Indiana	18,805	200,818	7.36	14,777.66
Michigan	5,726	434,952	7.07	30,767.29
Ohio	19,798	211,508	6.55	13,857.43
Wisconsin	5,522	356,375	7.31	26,063.20
<b>West North Central</b>	<b>126,985</b>	<b>61,392</b>	<b>7.27</b>	<b>4,463.89</b>
Iowa	8,565	235,831	6.60	15,563.87
Kansas	24,230	39,939	7.35	2,934.15
Minnesota	8,998	201,415	7.53	15,160.26
Missouri	10,096	107,383	7.11	7,633.55
Nebraska	62,204	14,225	7.65	1,088.66
North Dakota	8,803	88,973	7.94	7,068.39
South Dakota	4,089	59,588	7.81	4,652.73
<b>South Atlantic</b>	<b>85,778</b>	<b>137,218</b>	<b>6.50</b>	<b>8,913.78</b>
Delaware	865	196,900	7.70	15,162.38
District of Columbia	1	14,969,333	8.22	1,231,166.70
Florida	23,579	58,366	7.65	4,464.87
Georgia	23,539	114,680	6.17	7,076.64
Maryland	8,935	34,680	7.80	2,704.93
North Carolina	9,871	231,241	6.30	14,576.02
South Carolina	3,703	604,855	6.11	36,976.05
Virginia	3,723	393,908	6.85	26,995.28
West Virginia	11,562	104,701	6.02	6,307.82
<b>East South Central</b>	<b>24,787</b>	<b>332,373</b>	<b>5.76</b>	<b>19,159.10</b>
Alabama	7,245	375,006	5.95	22,313.65
Kentucky	6,147	395,326	5.57	22,021.66
Mississippi	10,379	128,418	5.85	7,516.44
Tennessee	1,016	1,731,014	5.68	98,281.57
<b>West South Central</b>	<b>306,569</b>	<b>56,495</b>	<b>5.43</b>	<b>3,065.46</b>
Arkansas	34,864	41,618	6.13	2,552.10
Louisiana	19,373	162,797	5.23	8,513.19
Oklahoma	19,905	87,516	5.07	4,434.04
Texas	232,427	47,210	5.45	2,571.19

## 2019 Average Monthly Bill- Industrial

(Data from forms EIA-861- schedules 4A-D, EIA-861S and EIA-861U)

State	Number of Customers	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)
<b>Mountain</b>	<b>96,422</b>	<b>73,300</b>	<b>6.33</b>	<b>4,642.64</b>
Arizona	7,899	145,406	6.28	9,128.17
Colorado	14,386	92,051	7.40	6,808.12
Idaho	28,493	25,876	6.08	1,573.56
Montana	11,286	37,340	5.45	2,035.52
Nevada	3,265	317,140	6.14	19,469.77
New Mexico	9,456	79,136	5.48	4,336.96
Utah	10,343	76,468	5.98	4,571.07
Wyoming	11,294	76,284	6.73	5,130.27
<b>Pacific Contiguous</b>	<b>199,658</b>	<b>36,583</b>	<b>9.67</b>	<b>3,536.88</b>
California	147,660	26,981	13.40	3,615.13
Oregon	25,169	48,566	5.86	2,843.84
Washington	26,829	78,186	4.80	3,756.36
<b>Pacific Noncontiguous</b>	<b>1,949</b>	<b>208,953</b>	<b>23.50</b>	<b>49,100.09</b>
Alaska	1,126	92,640	16.94	15,695.76
Hawaii	823	368,089	25.76	94,802.72
<b>U.S. Total</b>	<b>954,222</b>	<b>87,537</b>	<b>6.81</b>	<b>5,963.40</b>

# Ranking of 2019 average bundled price to industrial customers (cents/kWh)

S&P Global  
Market Intelligence

Rank	Company	State	Price Cents per kWh
1	Dayton Power and Light	OH	12.13
2	Ohio Power	OH	9.91
3	Indiana Michigan Power	MI	9.82
4	Evergy Metro	KS	9.12
5	Empire District Electric	KS	8.76
6	Indianapolis Power & Light	IN	8.70
7	Black Hills Colorado Electric	CO	8.51
8	Ohio Edison	OH	8.26
9	Empire District Electric	MO	8.21
10	<b>Evergy Kansas North</b>	<b>KS</b>	<b>8.19</b>
11	Wisconsin Electric Power	WI	8.17
12	Consumers Energy	MI	8.11
13	Duke Energy Ohio	OH	8.10
14	Northern States Power	MN	8.02
15	Cleco Power LLC	LA	7.98
16	Toledo Edison	OH	7.94
17	Interstate Power and Light	IA	7.90
18	Southern Indiana Gas and Electric	IN	7.87
19	Black Hills Power	SD	7.70
20	Northern States Power	SD	7.70
21	Evergy Metro	MO	7.68
22	Wisconsin Power and Light	WI	7.66
	<b>Evergy Kansas Central Average</b>	<b>KS</b>	<b>7.54</b>
23	Madison Gas and Electric	WI	7.50
24	Duke Energy Indiana	IN	7.49
25	Northern States Power	WI	7.46
26	Empire District Electric Company	AR	7.45
27	Empire District Electric Company	OK	7.43
28	Indiana Michigan Power	IN	7.29
29	Otter Tail Power	ND	7.27
30	Northern Indiana Public Service	IN	7.19
31	MDU Resources Group	ND	7.13
32	Southwestern Electric Power	LA	7.12
33	Northern States Power	ND	6.92
34	<b>Evergy Kansas South</b>	<b>KS</b>	<b>6.89</b>
35	NorthWestern Energy Division	SD	6.86
36	DTE Electric	MI	6.73
37	Entergy Arkansas	AR	6.67
38	Evergy Missouri West	MO	6.61
39	Commonwealth Edison	IL	6.58
40	Union Electric	MO	6.55
41	Minnesota Power	MN	6.53
42	Public Service of Colorado	CO	6.43
43	Southwestern Electric Power	TX	6.32
44	Northern States Power Company - WI	MI	6.31
45	Superior Water, Light and Power Company	WI	6.24
46	Wisconsin Public Service	WI	5.78
47	MidAmerican Energy	IA	5.68
48	Southwestern Electric Power	AR	5.65
49	Otter Tail Power	MN	5.61
50	Upper Peninsula Power	MI	5.32
51	MidAmerican Energy	IL	5.32
52	Cleveland Electric Illuminating	OH	5.20
53	MidAmerican Energy Company	SD	5.05
54	Oklahoma Gas and Electric	AR	5.05
55	Entergy Louisiana, LLC	LA	4.84
56	Public Service of Oklahoma	OK	4.81
57	Oklahoma Gas and Electric	OK	4.66
58	El Paso Electric	TX	4.62
59	Entergy Texas	TX	4.55
60	Ameren Illinois	IL	4.27
61	Southwestern Public Service	TX	3.89

6.96

Average of all Midwest Investor-Owned Utilities (States of ND, SD, MN, MI, WI, IA, IL, IN, CO, MO, OH, AR, TX, LA)

Evergy Kansas Central Vs. Midwest

**8.33% Higher**

Data compiled June 16, 2020. Source: S&P Global Market Intelligence